

# SEQUENCE LISTING

<110> Zahner, Joseph E.

<120> Inhibitor of cell proliferation and methods of use thereof.

<130> ME 04-001

<140>

<141> 2004-01-04

<150> 10/083,889

<151> 2002-02-27

<160> 25

<170> Microsoft Word 97

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<212> DNA

<213> Homo sapiens

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<301> Liu, J.H.

Wei, S.

Burnette, P.K.

Gamero, A.M.

Hutton, M

Djeu, J.Y.

<302> Functional association of TGF-beta receptor II with cyclin B

<303> Oncogene

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<306> 269-275

<307> 1999-01-07

<308> Genbank Accession No. NM\_004701

<309> 2000-11-01

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gcgaactgtt ttagaagaaa ttggaaatag agttacaacc agagcagcac aagtagctaa 300

gaaagctcag aacaccaaag ttccagttca acccaccaaa acaacaaatg tcaacaaaca 360

actgaaacct actgcttctg tcaaaccagt acagatggaa aagttggctc caaagggctc 420

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<213> Homo sapiens

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<301> Liu, J.H.

Wei, S.

Burnette, P.K.

Gamero, A.M.

Hutton, M

Djeu, J.Y.

<302> Functional association of TGF-beta receptor II with cyclin B

<303> Oncogene

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<307> 1999-01-07

<308> Genbank Accession No. NM\_004701

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Val Ala Lys Lys Ala Gln Asn Thr Lys Val Pro Val Gln Pro Thr Lys  
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Val Gln Met Glu Lys Leu Ala Pro Lys Gly Pro Ser Pro Thr Pro Glu  
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Asp Val Ser Met Lys Glu Glu Asn Leu Cys Gln Ala Phe Ser Asp Ala  
100 105 110

Leu Leu Cys Lys Ile Glu Asp Ile Asp Asn Glu Asp Trp Glu Asn Pro  
115 120 125

Gln Leu Cys Ser Asp Tyr Val Lys Asp Ile Tyr Gln Tyr Leu Arg Gln  
130 135 140

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Ile Asn Gly Arg Met Arg Ala Ile Leu Val Asp Trp Leu Val Gln Val  
165 170 175

His Ser Lys Phe Arg Leu Leu Gln Glu Thr Leu Tyr Met Cys Val Gly  
180 185 190

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195 200 205

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210 215 220

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Tyr Thr Ser Ser Gln Ile Arg Glu Met Glu Thr Leu Ile Leu Lys Glu  
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Leu Lys Phe Glu Leu Gly Arg Pro Leu Pro Leu His Phe Leu Arg Arg  
260 265 270

Ala Ser Lys Ala Gly Glu Val Asp Val Glu Gln His Thr Leu Ala Lys  
275 280 285

Tyr Leu Met Glu Leu Thr Leu Ile Asp Tyr Asp Met Val His Tyr His

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Glu Asn Glu Val Leu Glu Val Met Gln His Met Ala Lys Asn Val Val		
	340	345 350
Lys Val Asn Glu Asn Leu Thr Lys Phe Ile Ala Ile Lys Asn Lys Tyr		
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<223> asparagine or alanine

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35 40 45

Val Ala Lys Lys Ala Gln Asn Thr Lys Val Pro Val Gln Pro Thr Lys  
50 55 60

Thr Thr Asn Val Asn Lys Gln Leu Lys Pro Thr Ala Ser Val Lys Pro  
65 70 75 80

Val Gln Met Glu Lys Leu Ala Pro Lys Gly Pro Ser Pro Thr Pro Glu  
85 90 95

Asp Val Ser Met Lys Glu Glu Asn Leu Cys Gln Ala Phe Ser Asp Ala  
100 105 110

Leu Leu Cys Lys Ile Glu Asp Ile Asp Asn Glu Asp Trp Glu Asn Pro  
115 120 125

Gln Leu Cys Ser Asp Tyr Val Lys Asp Ile Tyr Gln Tyr Leu Arg Gln  
130 135 140

Leu Glu Val Leu Gln Ser Ile Asn Pro His Phe Leu Asp Gly Arg Asp  
145 150 155 160

Ile Asn Gly Arg Met Arg Ala Ile Leu Val Asp Trp Leu Val Gln Val  
165 170 175

His Ser Lys Phe Arg Leu Leu Gln Glu Thr Leu Tyr Met Cys Val Gly  
180 185 190

Ile Met Asp Arg Phe Leu Gln Val Gln Pro Val Ser Arg Lys Lys Leu  
195 200 205

Gln Leu Val Gly Ile Thr Ala Leu Leu Leu Ala Ser Lys Tyr Glu Glu  
210 215 220

Met Phe Ser Pro Asn Ile Glu Asp Phe Val Tyr Ile Thr Asp Asn Ala  
225 230 235 240

Tyr Thr Ser Ser Gln Ile Arg Glu Met Glu Thr Leu Ile Leu Lys Glu

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Leu Lys Phe Glu Leu Gly Arg Pro Leu Pro Leu His Phe Leu Arg Arg	260		265		270
Ala Ser Lys Ala Gly Glu Val Asp Val Glu Gln His Thr Leu Ala lys	275		280		285
Tyr Leu Met Glu Leu thr Leu Ile Asp Tyr Asp Met Val His Tyr His	290		295		300
Pro Ser Lys Val Ala Ala Ala Ala Ser Cys Leu Ser Gln Lys Val Leu	305		310		315
Gly Gln Gly Lys Trp Asn Leu Lys Gln Gln Tyr Tyr Thr Gly Tyr Thr		325		330	335
Glu Asn Glu val Leu Glu Val Met Gln His Met Ala Lys Asn Val Val		340		345	350
Lys Val Asn Glu Asn Leu Thr Lys Phe Ile Ala Ile Lys Asn Lys Tyr		355		360	365
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 <301> Watson, R.  
       Oskaesson, M.  
       Vande Woude, G.F.  
 <302> Human DNA sequence homologous to the transforming gene (mos) of  
       Moloney murine sarcoma virus.  
 <303> EMBO J.  
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 <306> 2245-2248  
 <307> 1982-01-07  
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cctcggggcc cgcggtctgcc gcgcggctg gcctggtgct ccattgactg ggagcagggtg	180

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 <301> Watson, R.  
       Oskaesson, M.  
       Vande Woude, G.F.  
 <302> Human DNA sequence homologous to the transforming gene (mos) of  
       Moloney murine sarcoma virus.  
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 <306> 2245-2248  
 <307> 1982-01-07  
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Lys Leu Leu Leu Gly Ala Thr Leu Pro Arg Ala Pro Arg Leu Pro Arg  
 35 40 45  
 Arg Leu Ala Trp Cys Ser Ile Asp Trp Glu Gln Val Cys leu Leu Gln  
 50 55 60  
 Arg Leu Gly Ala Gly Gly Phe Gly Ser Val Tyr Lys Ala Thr Tyr Arg  
 65 70 75 80  
 Gly Val Pro Val Ala Ile Lys Gln Val Asn Lys Cys Thr Lys Asn Arg  
 85 90 95  
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 100 105 110  
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 145 150 155 160  
 Asp Ala Gly Glu Pro His Cys Arg Thr Gly Gly Gln Leu Ser Leu Gly  
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 His Ser Gln Ser Ile Val His Leu Asp Leu Lys Pro Ala Asn Ile Leu  
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<210> 18  
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<212> PRT  
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Val Glu  
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<212> DNA

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ggcgtgctc cgacgcccga cgggtgtccag tgatttgag aatattgaca caggagttaa	240
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agttacaacc agagcagcac aagtagctaa gaaagctcag aacaccaaag ttccagttca	360
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gcttctgcag gagactctgt acatgtgcgt tggcattatg gatcgatttt tacaggttca	780
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35 40 45  
Gly Asn Arg Val Thr Thr Arg Ala Ala Gln Val Ala Lys Lys Ala Gln  
50 55 60  
Asn Thr Lys Val Pro Val Gln Pro Thr Lys Thr Thr Asn Val Asn Lys  
65 70 75 80  
Gln Leu Lys Pro Thr Ala Ser Val Lys Pro Val Gln Met Glu Lys Leu  
85 90 95  
Ala Pro Lys Gly Pro Ser Pro Thr Pro Glu Asp Val Ser Met Lys Glu  
100 105 110  
Glu Asn Leu Cys Gln Ala Phe Ser Asp Ala Leu Leu Cys Lys Ile Glu  
115 120 125  
Asp Ile Asp Asn Glu Asp Trp Glu Asn Pro Gln Leu Cys Ser Asp Tyr  
130 135 140  
Val Lys Asp Ile Tyr Gln Tyr Leu Arg Gln Leu Glu Val Leu Gln Ser  
145 150 155 160  
Ile Asn Pro His Phe Leu Asp Gly Arg Asp Ile Asn Gly Arg Met Arg  
165 170 175  
Ala Ile Leu Val Asp Trp Leu Val Gln Val His Ser Lys Phe Arg Leu  
180 185 190  
Leu Gln Glu Thr Leu Tyr Met Cys Val Gly Ile Met Asp Arg Phe Leu  
195 200 205  
Gln Val Gln Pro Val Ser Arg Lys Lys Leu Gln Leu Val Gly Ile Thr  
210 215 220  
Ala Leu Leu Leu Ala Ser Lys Tyr Glu Glu Met Phe Ser Pro Asn Ile  
225 230 235 240

Glu Asp Phe Val Tyr Ile Thr Asp Asn Ala Tyr Thr Ser Ser Gln Ile  
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                   275                                  280                                  285  
 Val Asp Val Glu Gln His Thr Leu Ala lys Tyr Leu Met Glu Leu thr  
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 Leu Ile Asp Tyr Asp Met Val His Tyr His Pro Ser Lys Val Ala Ala  
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 Ala Ala Ser Cys Leu Ser Gln Lys Val Leu Gly Gln Gly Lys Trp Asn  
                   325                                  330                                  335  
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 Val Met Gln His Met Ala Lys Asn Val Val Lys Val Asn Glu Asn Leu  
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